



*Beyond Comparison™*

The background of the slide is a photograph of a beach. In the foreground, there are several dark, wet rocks scattered across the sand. The water is a deep blue, and the sky is a lighter blue. The overall tone is cool and serene.

# **NIST Latent Fingerprint Workshop**

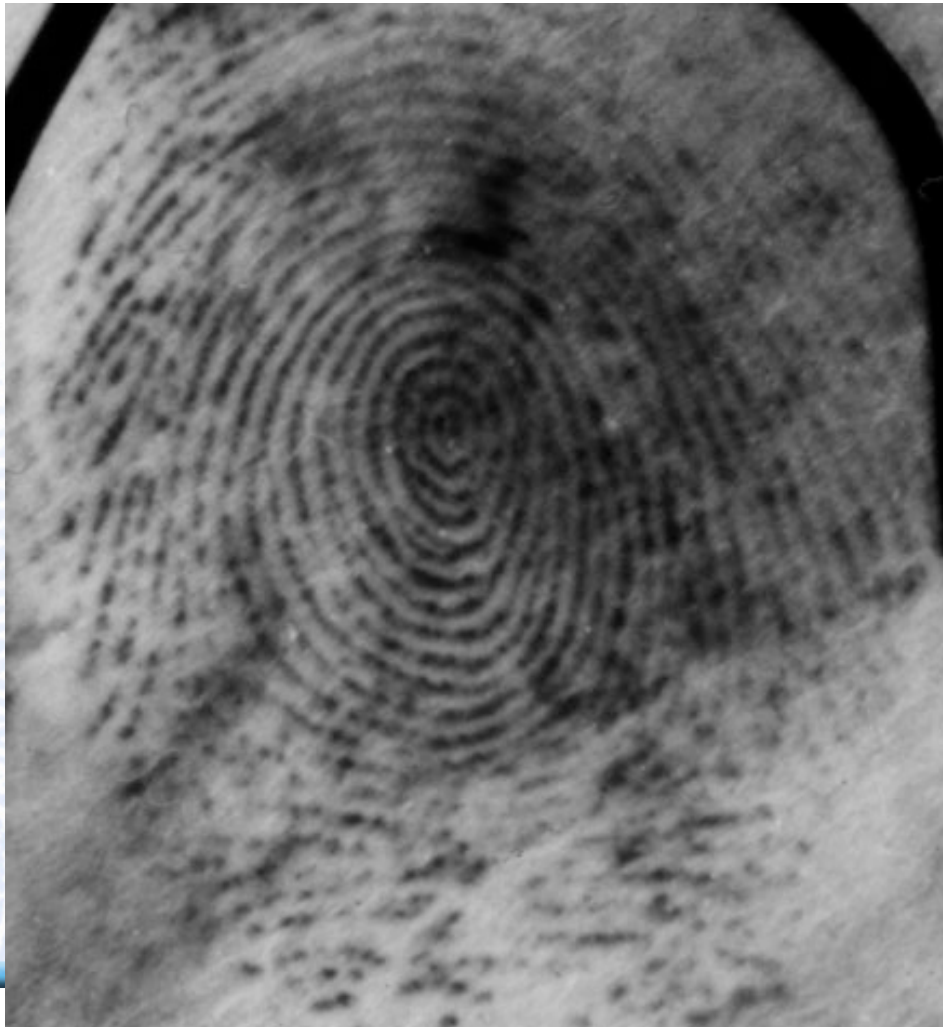
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## 1a Image-only Latent Matching



COGENT  SYSTEMS

- Examiner and computer have complimentary capabilities

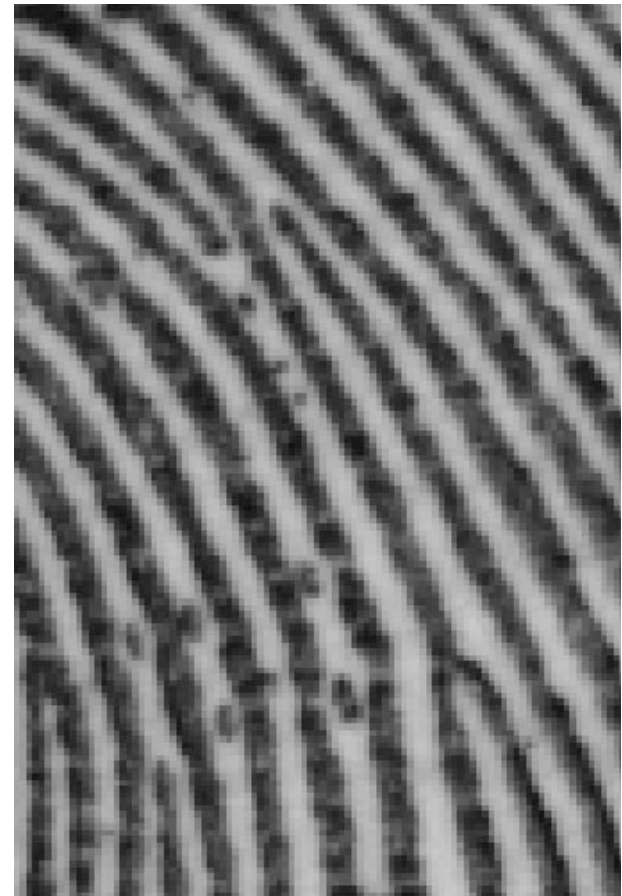
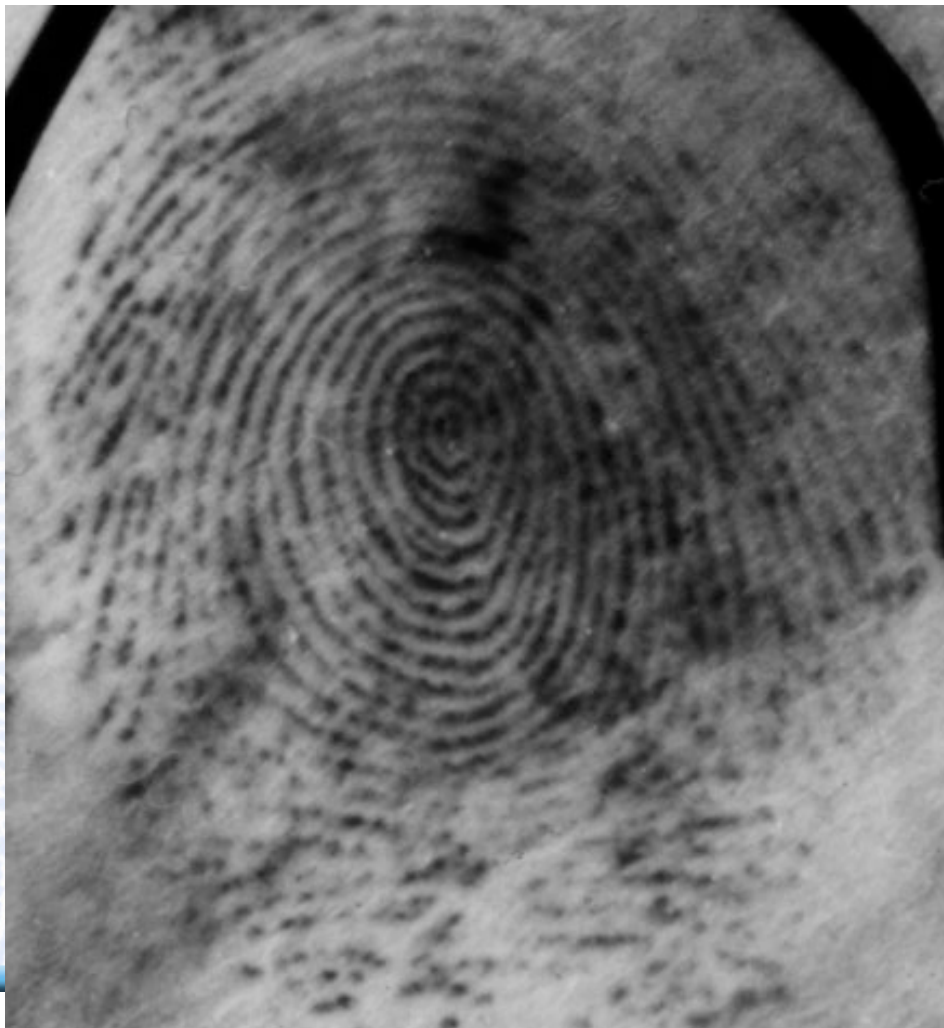


## 1a Image-only Latent Matching



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- Examiner and computer have complimentary capabilities



## 1a Image-only Latent Matching



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- Search should always include image
  - Storage and bandwidth are less of a concern
- Examiner selects range of features for inclusion
  - Image quality
  - Case characteristics



## 2a CDEFFS Specification



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### Searching Cogent CAFIS:

- ANSI/NIST/EBTS search with image plus one of:
  - IAFIS feature set
  - EFFS minutiae (9.331) + distinctive area (9.324) + ...
- Return candidates in EBTS/SRL format

- Distinctive Area (9.324)
  - Discriminating/unique Detail
  - Third Level Detail
  - Texture Matching



## 2c How to Test EFFS



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**To get a return on investment (viable interoperability)**

**Provide actionable feedback (test images) to participants**

